Gulf of Mexico Harmful Algal Bloom Bulletin

5 February 2007

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: February 1, 2007

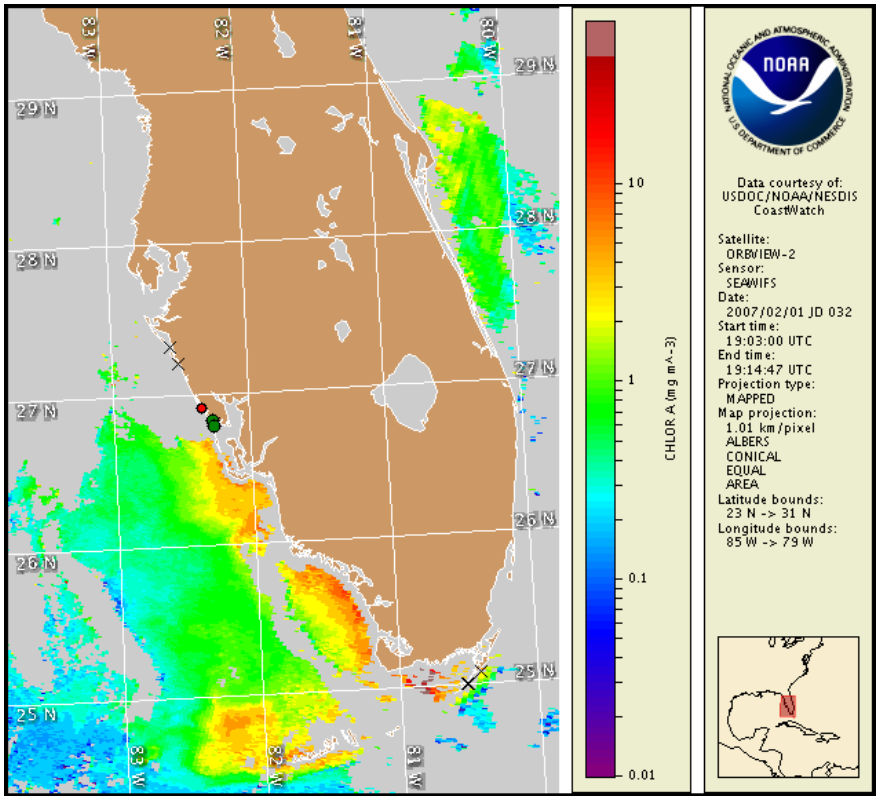
Conditions Report

A harmful algal bloom has been identified in patches from southern Sarasota to central Collier Counties. Very low impacts are possible in southern Sarasota and Charlotte Counties. No other impacts are expected within the bloom region.

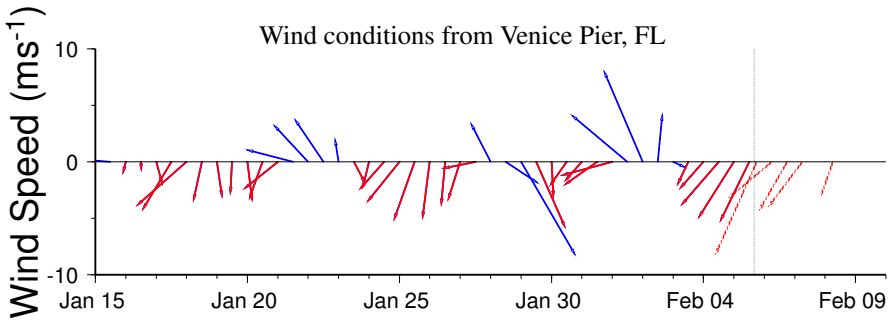
Analysis

A harmful algal bloom persists alongshore from southern Sarasota to central Collier Counties, although recent sampling data indicates that it is weakening. Recent sampling detected *K. brevis* concentrations of "very low a" at Lee County South Seas Plantation (1/31, LCEL) and of "medium" at Englewood Beach (2/01, FWRI). Recent imagery has been mostly obscured by clouds. Imagery from 2/01 shows elevated chlorophyll levels at several locations: about 5 μg/L northwest of Cape Romano around 26°8'N, 82°2'W; about 8 μg/L southeast of Cape Romano around 25°49'N, 81°36'W; about 5 μg/L northwest of the Keys around 24°50'N, 82°12'W. Sampling is recommended. Upwelling-favorable winds may intensify the bloom through Thursday. A wind transport model indicates 25 km of northward alongshore transport in the bloom region over the last five days. No alongshore transport of the bloom is expected through Thursday.

Bronder, Keller

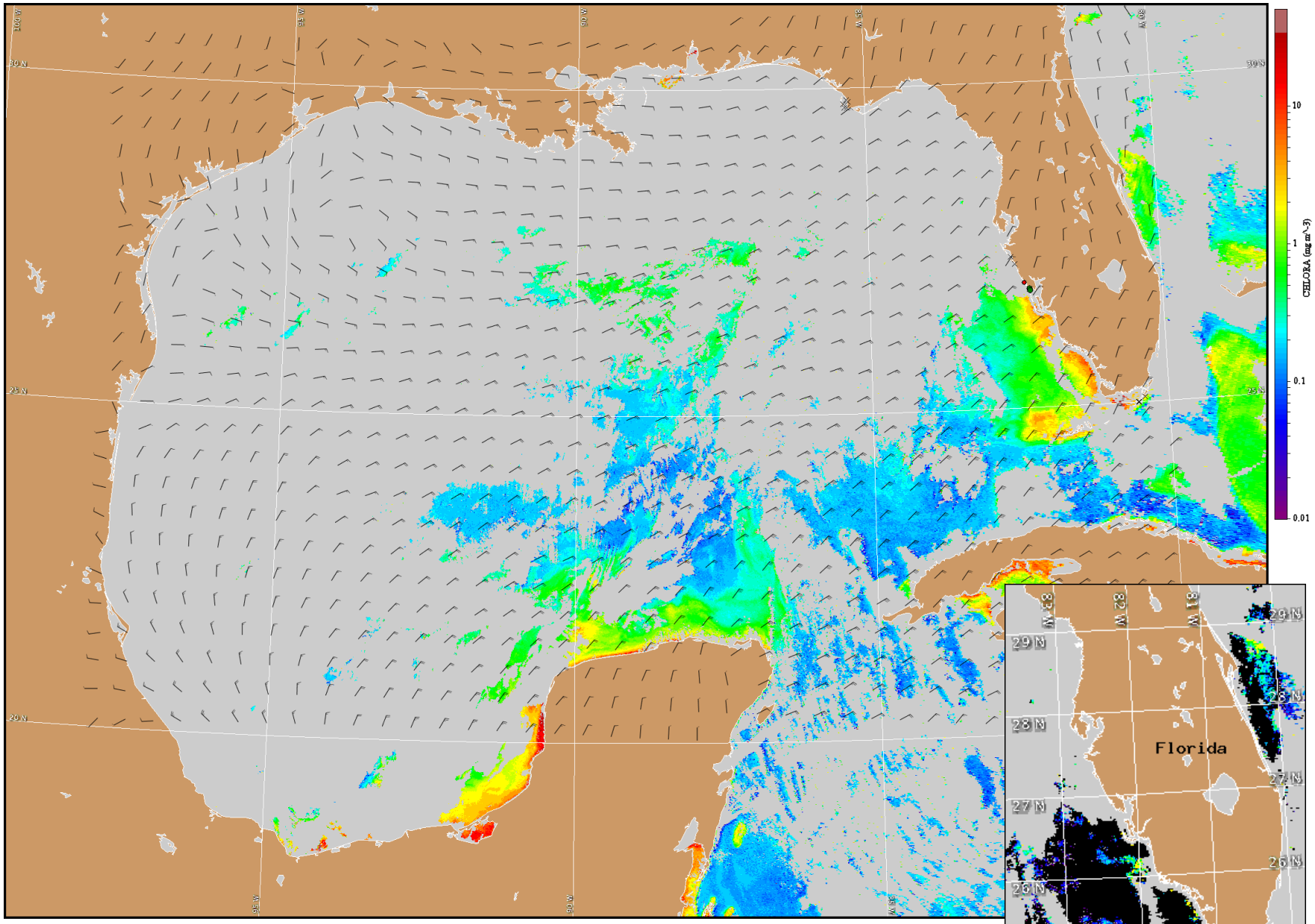


Satellite chlorophyll image with possible HAB areas shown by red polygon(s).Cell concentration sampling data from January 26-February 1 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the the HABFS bulletin guide: http://www.csc.noaa/gov/crs/habf/habfs_bulletin_guide.pdf



Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

SW Florida: Winds will be northeast (20 kts, 10 m/s) today, northeast (10 kts, 5 m/s) tomorrow and Wednesday.



Satellite chlorophyll image and forecast winds for February 6, 2007 12Z with cell concentration sampling data from January 26-February 1 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the the HABFS bulletin guide: http://www.csc.noaa/gov/crs/habf/habfs_bulletin_guide.pdf

Verifi ed HAB areas shown in red. Other bloom areas shown in yellow (see p. 1 analysis for interpretation).